CCTT Use of the HLA Performance Framework

AMG20 Tech Exchange

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Uses of the Framework

- General description of CCTT SAF Capability (what is)
- Description of an experiment already conducted (what was)
- Description of an experiment currently underway (what will be)

General Observations

- General description “reusable” when applying federate to other fedexes
- Provides a good common framework for discussing experimental results
- Great way to plan and support development of new experiments

CCTT Example

(insert some specific tables here)

Recommendations

- Include additional Fedex specific data processing information
  - Byte ordering and byte alignment information
  - Number of processes and what each is running (e.g. CCTT CGF network process creates 1 federate, the entity process creates another federate. The Bridge Federate runs as a third process on a different processor)

Recommendations (cont)

- To support federates with multiple RTI connections, need to define the federates at the "lower level"
- Host Table: For multi-processor systems useful to include the number of processors and what they are used for
- Provide a way to describe the entire experiment configuration when utilizing multiple fedexes
  - Many tables are fedex specific, some federate specific

Conclusions

- Performance framework is a critical tool in describing fedex details
- Additional information will help fill out the requirements for the FRED
- Plan to continue the use of the tool in experiment planning, development and analysis